Monitoring Data Record

Project Title: R-2206B (NC 16 Bypass) COE Action ID: 200431320
Stream Name: UT to Forney Creek (Site 10B) WQC Number: 3476
City, County and other Location Information: Lincoln County, NC 16 Bypass (Sta. 159+00 LT.-L-)
Date Construction Completed: 3-3-08 Monitoring Year: (1) of 5
Ecoregion: 8 digit HUC unit 03050101
USGS Quad Name and Coordinates:
Rosgen Classification: C5
Length of Project: 463' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green Date: 3-3-08
Applicant Information:
Name: NCDOT – Roadside Environmental Unit
Address: 1425 Rock Quarry Rd, Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status:

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level **1**

Permit States: The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period: Reference photos; plant survival (i.e. identify specific problem areas (missing, stressed, damaged or dead plantings), estimated causes, and proposed/required remedial action);visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. The permittee shall submit the monitoring reports to the USACE, Raleigh Regulatory Field Office Project Manager, within sixty days after completing the monitoring. If less than two bankfull events occur during the first 5 years, the permittee shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the five-year monitoring period, the USACE, in consultation with the resource agencies, may determine that further monitoring is not required. It is suggested that all bankfull occurrences be monitored and reported through the required monitoring period. The permittee shall perform and submit photo documentation twice each year (summer and winter) for the 5-year monitoring period, and for any subsequently required monitoring period.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 10 photos were taken from 5 photo point locations looking up and down stream
Dates reference photos have been taken at this site: 3-3-08

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference:

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: Vegetation is dormant at this time. Streambank reforestation consisted of black willow and silky dogwood live stakes planted along the streambank. The floodplain was planted with overcup oak, sycamore, green ash, and river birch bareroot seedlings.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

UT to Forney Creek has some bank erosion behind the left arm of a crossvane at Photo Point #5 (Upstream). Other than this minor erosion the stream is in fairly stable condition for Year 1 Winter evaluation.

Date 3/3/08	PP#5 (Upstream)	Station Number	Station Number	Station Number	Station Number
Structure Type	Crossvane				
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?	Minor erosion behind left arm of crossvane				
Other problems noted?					

UT Forney Creek

Photo Point #1 (Upstream)

Photo Point #1 (Downstream)

Photo Point #2 (Upstream)

Photo Point #2 (Downstream)

Photo Point #3 (Upstream)

Photo Point #3 (Downstream)

Year 1 Winter – March 2008

UT Forney Creek

Photo Point #4 (Upstream)

Photo Point #4 (Downstream)

Photo Point #5 (Upstream)

Photo Point #5 (Downstream)

Year 1 Winter – March 2008